

SPOKEN DIALOGUE TECHNOLOGY

*Toward the
Conversational
User Interface*

Michael F. McTear

 Springer

Spoken Dialogue Technology Towards The Conversational User Interface

Mark Steyvers



Spoken Dialogue Technology Towards The Conversational User Interface:

Spoken Dialogue Technology Michael F. McTear, 2004-09-09 Spoken Dialogue Technology provides extensive coverage of spoken dialogue systems ranging from the theoretical underpinnings of the study of dialogue through to a detailed look at a number of well established methods and tools for developing spoken dialogue systems The book enables students and practitioners to design and test dialogue systems using several available development environments and languages including the CSLU toolkit VoiceXML SALT and XHTML voice This practical orientation is usually available otherwise only in reference manuals supplied with software development kits The latest research in spoken dialogue systems is presented along with extensive coverage of the most relevant theoretical issues and a critical evaluation of current research prototypes A dedicated web site containing supplementary materials code links to resources will enable readers to develop and test their own systems Previously such materials have been difficult to track down available only on a range of disparate web sites and this web site provides a unique and useful reference source which will prove invaluable

Conversational AI Michael McTear, 2020-10-30 This book provides a comprehensive introduction to Conversational AI While the idea of interacting with a computer using voice or text goes back a long way it is only in recent years that this idea has become a reality with the emergence of digital personal assistants smart speakers and chatbots Advances in AI particularly in deep learning along with the availability of massive computing power and vast amounts of data have led to a new generation of dialogue systems and conversational interfaces Current research in Conversational AI focuses mainly on the application of machine learning and statistical data driven approaches to the development of dialogue systems However it is important to be aware of previous achievements in dialogue technology and to consider to what extent they might be relevant to current research and development Three main approaches to the development of dialogue systems are reviewed rule based systems that are handcrafted using best practice guidelines statistical data driven systems based on machine learning and neural dialogue systems based on end to end learning Evaluating the performance and usability of dialogue systems has become an important topic in its own right and a variety of evaluation metrics and frameworks are described Finally a number of challenges for future research are considered including multimodality in dialogue systems visual dialogue data efficient dialogue model learning using knowledge graphs discourse and dialogue phenomena hybrid approaches to dialogue systems development dialogue with social robots and in the Internet of Things and social and ethical issues

Spoken, Multilingual and Multimodal Dialogue Systems Ramon Lopez Cozar Delgado, Masahiro Araki, 2007-01-11 Dialogue systems are a very appealing technology with an extraordinary future Spoken Multilingual and Multimodal Dialogues Systems Development and Assessment addresses the great demand for information about the development of advanced dialogue systems combining speech with other modalities under a multilingual framework It aims to give a systematic overview of dialogue systems and recent advances in the practical application of spoken dialogue systems Spoken Dialogue Systems are computer based

systems developed to provide information and carry out simple tasks using speech as the interaction mode Examples include travel information and reservation weather forecast information directory information and product order Multimodal Dialogue Systems aim to overcome the limitations of spoken dialogue systems which use speech as the only communication means while Multilingual Systems allow interaction with users that speak different languages Presents a clear snapshot of the structure of a standard dialogue system by addressing its key components in the context of multilingual and multimodal interaction and the assessment of spoken multilingual and multimodal systems In addition to the fundamentals of the technologies employed the development and evaluation of these systems are described Highlights recent advances in the practical application of spoken dialogue systems This comprehensive overview is a must for graduate students and academics in the fields of speech recognition speech synthesis speech processing language and human computer interaction technology It will also prove to be a valuable resource to system developers working in these areas

The Conversational Interface

Michael McTear,Zoraida Callejas,David Griol,2016-05-19 This book provides a comprehensive introduction to the conversational interface which is becoming the main mode of interaction with virtual personal assistants smart devices various types of wearable and social robots The book consists of four parts Part I presents the background to conversational interfaces examining past and present work on spoken language interaction with computers Part II covers the various technologies that are required to build a conversational interface along with practical chapters and exercises using open source tools Part III looks at interactions with smart devices wearables and robots and discusses the role of emotion and personality in the conversational interface Part IV examines methods for evaluating conversational interfaces and discusses future directions

Speech Technology Fang Chen,Kristiina Jokinen,2010-07-01 This book gives an overview of the research and application of speech technologies in different areas One of the special characteristics of the book is that the authors take a broad view of the multiple research areas and take the multidisciplinary approach to the topics One of the goals in this book is to emphasize the application User experience human factors and usability issues are the focus in this book

Quality Engineering Sebastian Möller,2023-04-21 Der Begriff der Qualität und der Gebrauchstauglichkeit hat in der Informations und Kommunikationstechnik sowie der Informatik eine herausragende Bedeutung Der Autor führt in diese Thematik ein indem er zunächst die Fachbegriffe und die Grundlagen der Psychophysik und Psychometrie erläutert Darauf aufbauend wird der Kreislauf einer menschenorientierten Systementwicklung vorgestellt Die Messung und Vorhersage von Qualität und Gebrauchstauglichkeit wird anhand von Beispielen veranschaulicht u a f r Sprach und multimodale Dialogsysteme

[Berkshire Encyclopedia of Human-computer Interaction](#) William Sims Bainbridge,2004 Presents a collection of articles on human computer interaction covering such topics as applications methods hardware and computers and society

Text, Speech and Dialogue Vaclav Matousek,Pavel Mautner,2009-09-03 This volume constitutes selected papers from the 12th International Conference on Text Speech and Dialogue TSD 2009 held in Pilsen Czech Republic in

September 2009 This volume contains a collection of submitted papers presented at the conference which were thoroughly reviewed by three members of the conference reviewing team consisting of more than 40 top specialists in the conference topic areas A total of 53 accepted papers out of 112 submitted altogether contributed 127 authors and co authors were selected for presentation at the conference by the program committee and then included in this book Theoretical and more general contributions were presented in common plenary sessions Problem oriented sessions as well as panel discussions then brought together the specialists in limited problem areas with the aim of exchanging knowledge and skills resulting from research projects of all kinds

Companion Technology Susanne Biundo, Andreas Wendemuth, 2017-12-04 Future technical systems will be companion systems competent assistants that provide their functionality in a completely individualized way adapting to a user's capabilities preferences requirements and current needs and taking into account both the emotional state and the situation of the individual user This book presents the enabling technology for such systems It introduces a variety of methods and techniques to implement an individualized adaptive flexible and robust behavior for technical systems by means of cognitive processes including perception cognition interaction planning and reasoning The technological developments are complemented by empirical studies from psychological and neurobiological perspectives

The 2nd IET International Conference on Intelligent Environments, 2006 *Text, Speech and Dialogue*, 2004

The Routledge Pragmatics Encyclopedia Louise Cummings, 2013 This is a comprehensive reference volume that will give the reader an insight into all the concepts theories issues and scholars that have shaped the field of pragmatics

INTERSPEECH 2004 - ICSLIP, 2004

Encyclopedia of Multimedia Technology and Networking Margherita Pagani, 2008-08-15 This publication offers a research compendium of human knowledge related to the emerging multimedia digital metamarket Provided by publisher

International Conference on Multimodal Interfaces, 2006 **ICMI '06**, 2006

Encyclopedia of Internet Technologies and Applications Mário Marques Freire, Manuela Periera, 2008 This book is the single source for information on the world's greatest network and provides a wealth of information for the average Internet consumer as well as for experts in the field of networking and Internet technologies It provides the most thorough examination of Internet technologies and applications for researchers in a variety of related fields Provided by publisher

9th International Workshop on Spoken Dialogue System Technology Luis Fernando D'Haro, Rafael E. Banchs, Haizhou

Li, 2019-09-24 This book presents the outcomes of the 9th International Workshop on Spoken Dialogue Systems IWSDS Towards creating more human like conversational agent technologies It compiles and provides a synopsis of current global research to push forward the state of the art in dialogue technologies including advances in the context of the classical problems of language understanding dialogue management and language generation as well as cognitive topics related to the human nature of conversational phenomena such as humor empathy and social context understanding and awareness

Proceedings of the ... International IEEE Conference on Tools for Artificial Intelligence, 1999 The Journal of

the Acoustical Society of America Acoustical Society of America,2002

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